

**State of California
AIR RESOURCES BOARD**

**EXECUTIVE ORDER A-3-94
Relating to Certification of New Motor Vehicles**

DAIMLER-BENZ AG

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Daimler-Benz AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|---|
| KMB4.2V6FA15 | 4.2 (256) | Air Injection - Pump Exhaust Gas Recirculation Heated Oxygen Sensor Warm-Up Three-Way Catalyst Three-Way Catalyst (Mechanical Port Fuel Injection) (On-Board Diagnostics) |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons (Grams per Mile)</u> | <u>Carbon Monoxide (Grams per Mile)</u> | <u>Nitrogen Oxides (Grams per Mile)</u> |
|--|---|---|
| 0.41 | 7.0 | 0.4 |

The following are the certification emission values for this engine family:

| <u>Hydrocarbons (Grams per Mile)</u> | <u>Carbon Monoxide (Grams per Mile)</u> | <u>Nitrogen Oxides (Grams per Mile)</u> |
|--|---|---|
| 0.14 | 1.1 | 0.1 |

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 1st day of September, 1988.



K. D. Drachand, Chief
Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #

A-3-94

Page 1

Manufacturer Mercedes-Benz Engine Family KMB4.2V6FA15
Evaporative Family KMBV6-2 Engine Type V-8
Liters (CID) 4.2(256)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, EPFI, MPFI, SFI,
DID, DIP, HOS, OS
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection - Pump
AIV-Air Injection - Valve
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control (Diesel Only)
EM-Engine Modification
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
DBC-Dual Bed Catalyst
OC-Oxidation Catalyst
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
TC-Turbocharger
SC-Supercharger
IC-Intercooler or Aftercooler
CCV-Combustion Chamber Valve
OBD-On-Board Diagnostics

VEHICLE MODELS: 420SEL

Engine: Front x Mid. Rear
Drive: FWD RWD x 4WD Full Time 4WD Part Time

19 89 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETE.O. # A-3-94Passenger Cars x Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas x Diesel _____Manufacturer Mercedes-Benz Engine Family KMB4.2V6FA15Liter (CID) 4.2(256) Eng. Type V-8Emission Control Sys. (Special Features) AIP,EGR,HOS,WUTWC,TWC (MPFI,OBID)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No. | Catalyst Part No. |
|-------------|--|-------------|--------------------|--|--|---------------------------|---|
| M116-3 | 420SEL (10.6) | A-4 | 4250 | 003 545 9132 003 545 9232* *) alternate manufacturer | Fuel Distr. 000 140 8160 Oxygen Sens. 007 542 3217 0 438 101 018 | | Underhood: 126 490 1814 126 490 2214* Underfloor: 126 490 0714 126 490 1914* |

Comments: See page one for abbreviations and evaporative emission family identification.
Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue _____ Revisions:

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-3-94

Page 1

Manufacturer Mercedes-Benz Engine Family KMB4.2V6FA15
 Evaporative Family KMBV6-2 Engine Type V-8
 Liters (CID) 4.2(256)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 ECU-Electronic Control Unit
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

CFI, EPFI, MPFI, SFI,
 DID, DIP, HOS, OS
 nV-nVenturi Carburetor
 VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection - Pump
 AIV-Air Injection - Valve
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control (Diesel Only)
 EM-Engine Modification
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 DBC-Dual Bed Catalyst
 OC-Oxidation Catalyst
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
 EPFI-Electronic Port Fuel Injection
 MPFI-Mechanical Port Fuel Injection
 SFI-Sequential Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 TC-Turbocharger
 SC-Supercharger
 IC-Intercooler or Aftercooler
 CCV-Combustion Chamber Valve
 OBD-On-Board Diagnostics

VEHICLE MODELS: 420SEL

Engine: Front x Mid. Rear
 Drive: FWD RWD x 4WD Full Time 4WD Part Time

19 89 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-3-94

Passenger Cars x Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas x Diesel _____

Manufacturer Mercedes-Benz Engine Family KMB4.2V6FA15

Liter (CID) 4.2(256) Eng. Type V-8

Emission Control Sys. (Special Features) AIP,EGR,HOS,WUTWC,TWC (MPFI,OBID)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No. | Catalyst Part No. |
|-------------|--|-------------|--------------------|--|--|---------------------------|---|
| M116-3 | 420SEL (10.6) | A-4 | 4250 | 003 545 9132 003 545 9232* *) alternate manufacturer | Fuel Distr. 0 438 101 018 Oxygen Sens. 007 542 3217 | 000 140 8160 | Underhood: 126 490 1814 126 490 2214* Underfloor: 126 490 0714 126 490 1914* |

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue _____ Revisions: